

IN THE SPECIFICATION

Please replace the paragraphs at page 4, lines 7-14 in their entirety, and replace with the following:

~~According to another aspect of the present invention, there is provided a reproducing method comprises a step of reproducing information from the optical disk according to claim 1.~~

~~According to further aspect of the present invention, there is provided a recording method comprises a step of recording information using the information of the optical head defined claim 1.~~

According to another aspect of the present invention, there is provided an optical disk apparatus including an optical head device including a light source which outputs a light beam having a predetermined wavelength, a collimating lens of an optical element which guides and focuses the light beam from the light source to a predetermined recording area of a recording medium, and an objective lens which focuses the light beam at a predetermined position of the recording medium; a program retaining device in which a control program for reading out information concerning intensity of the light beam for recording the information on the recording medium, reproducing the information from the recording medium, or erasing the information recorded in the recording medium is recorded in a recording region preceding the region in which information showing laser power for reading is recorded, the information being defined by a focal distance of the collimating lens, a wavelength and a spread angle of the light beam from the light source, and a numerical aperture NA and the focal distance of the objective lens; and a light source driving device which reads out the intensity of the light

beam from the recording medium according to the control program recorded in the program retaining device and optimizes the intensity of the light beam from the light source.

According to a further aspect of the present invention, there is provided a method for reproducing data in an optical disk, including setting power of a laser beam output from a laser element to be for non-recording use and non-erasing use; acquiring RIM intensity from a data region provided in an inner radius direction of the optical disk, the RIM intensity being recorded in the data region preceding a region in which information showing laser power for reading is recorded; and acquiring data concerning said non-recording use and non-erasing use to set non-recording and non-erasing power.

According to a still further aspect of the present invention, there is provided a method for recording data in an optical disk, including setting power of a laser beam output from a laser element to be for non-recording use and non-erasing use; acquiring RIM intensity from a data region provided in an inner radius direction of the optical disk, the RIM intensity being recorded in the data region preceding a region in which information showing laser power for reading is recorded; and acquiring data concerning recording use and erasing use to set recording and erasing laser power.